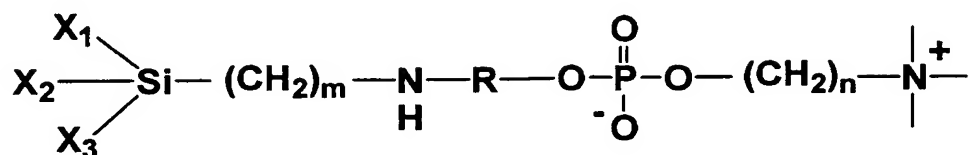


## CLAIMS

[Claim 1]

A phosphorylcholine group-containing  
 5 chemical compound represented by the following  
 formula (1).



(1)

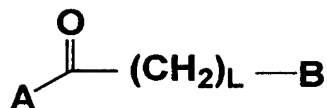
In this formula, m denotes 2-6 and n denotes  
 10 1-4.

X<sub>1</sub>, X<sub>2</sub>, and X<sub>3</sub>, independent of each other,  
 denote a methoxy group, ethoxy group, or halogen.  
 Up to two of X<sub>1</sub>, X<sub>2</sub>, and X<sub>3</sub> can be any of the  
 following groups: a methyl group, ethyl group,  
 15 propyl group, isopropyl group, butyl group, or  
 isobutyl group.

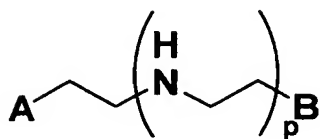
R is one of the structures in the following  
 formulas (2)-(4) (the chemical compound of formula  
 (1) in the structures of the following formulas  
 20 (2)-(4) is expressed as A-R-B).



(2)



(3)

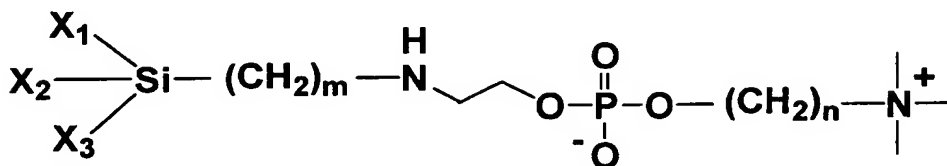


(4)

5 In formulas (2)-(4), L is 1-6, and P is 1-3.

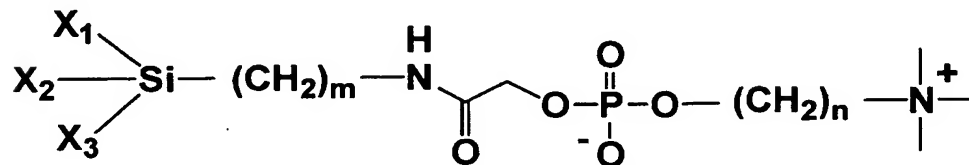
[Claim 2]

A phosphorylcholine group-containing chemical compound represented by the following formula (5) or (6).



10

(5)



(6)

15 In this formula, m denotes 2-6 and n denotes 1-4. X<sub>1</sub>, X<sub>2</sub>, and X<sub>3</sub>, independent of each other, denote a methoxy group, ethoxy group, or halogen. Up to two of X<sub>1</sub>, X<sub>2</sub>, and X<sub>3</sub> can be any of the following groups: a methyl group, ethyl group,

propyl group, isopropyl group, butyl group, or isobutyl group.

[Claim 3]

5 A surface modifier consisting of the phosphorylcholine group-containing chemical compound of claim 1 or 2.

[Claim 4]

10 A method of manufacturing the compound represented by said formula (6) in which a compound having a phosphorylcholine group and a carboxyl group is synthesized by means of an oxidation reaction of glycerophosphorylcholine using sodium periodate and ruthenium trichloride and synthesis is carried out by using a  
15 condensation agent on an organic silane compound having an amino group and the compound having a phosphorylcholine group and a carboxyl group.

[Claim 5]

20 Modified powder treated with the surface modifier of claim 3.

[Claim 6]

A chromatography packing consisting of a modified carrier treated with the surface modifier of claim 3.

25 [Claim 7]

A modified filter treated with the surface  
modifier of claim 3.

[Claim 8]

A glass experimental device whose surface is  
5 treated with the surface modifier of claim 3.